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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-11-17

Lab ID	:	CP-2017-11-20-06
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to J.P. Colony main road in Ward no.02. Yelahanka Sub division.
Agency	:	Sri. G. Kishore Naidu, No.81, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-06/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-11-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg, Min)	275.8	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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FOR CIVIL Pro.

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

****End of Report****

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 19-12-17

Lab ID	:	**CP-2017-11-20-06**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to J.P. Colony main road in Ward no.02. Yelahanka Sub division.
Agency	:	Sri. G. Kishore Naidu, No.81, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-06/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-11-17

Compressive Strength			
SLNo.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-20-06** **Date: 23-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to J.P. Colony main road in Ward no.02. Yelahanka Sub division.
Agency	:	Sri. G. Kishore Naidu, No.81, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-06/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	269	269	1.8	98.2	90-100
3	20 mm	5861	6130	40.9	59.1	30-70
4	10 mm	4849	10979	73.2	26.8	10-35
5	4.75 mm	3658	14637	97.6	2.4	0-5
6	Pan	363	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-20-06** **Date: 23-11-17**

Sample ID No : 2017-11-20-06/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.5	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.25	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-20-06** **Date: 23-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to J.P. Colony main road in Ward no.02. Yelahanka Sub division.
Agency	:	Sri. G. Kishore Naidu, No.81, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-08/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-06/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2874	3146	62.9	37.1	25-55
4	4.75 mm	1568	4714	94.3	5.7	0-10
5	Pan	286	5000	100	0	_

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-11-30-04

Date: 25/12/2017

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to J.P. Colony main road in Ward no.02. Yelahanka Sub division.

Agency : Sri. G. Kishore Naidu, No.81, 8th cross, 5th phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-11-17

Sample ID No : 2017-11-30-04/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	27/11/2017	25/12/2017	150.42 X 150.54 X 150.55	22644	8.241	493.6	21.8	22.0
2	PCC	M20	27/11/2017	25/12/2017	150.32 X 150.54 X 150.35	22629	8.278	502.4	22.2	
3	PCC	M20	27/11/2017	25/12/2017	150.42 X 150.54 X 150.37	22644	8.321	498.2	22.0	

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2017-11-20-06 **Date: 24-11-17**

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to J.P. Colony main road in Ward no.02. Yelahanka Sub division.

Agency : Sri. G. Kishore Naidu, No.81, 8th cross, 5th phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-11-17

Sample ID No : 2017-11-20-06/05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 20/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.23	100.38	1.226	4444	96.9	21.8	20.3	25.3
2	Cover Slab-2	75.44	100.52	1.212	4469	92.3	20.7	19.2	24.0
3	Cover Slab-3	75.64	100.26	1.238	4493	91.5	20.4	18.9	23.7

Note:

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